

## ANNUAL PEDAGOGICAL PLAN (GRADE IX- MATHEMATICS)

S.No	What are the problems	Compilation of problems	Categorisation of Problems (Subjective & Behavioural)
1. Number System	Students were facing problems : <ul style="list-style-type: none"> <li>• To represent the given irrational numbers on the number line</li> <li>• To rationalise the denominator</li> </ul>	Students face problems in applying the concept and visualising. They face problem in calculation part.	<b>Subjective:</b> Not able to apply Pythagoras property while representing irrational number on number line <b>Behavioural:</b> Lack of constructional Skill
2. Polynomials	<ul style="list-style-type: none"> <li>• To understand the concept of zero of a polynomial</li> <li>• To factorise the Polynomial</li> <li>• To apply proper algebraic identity</li> </ul>	Logical Skill and understanding	<b>Subjective:</b> In the Class VIII, students were taught factorisation. But still, they couldn't develop understanding of the same. <b>Behavioural:</b> They do not focus on concept building rather than just mug up.
3. Coordinate Geometry	Problems : <ul style="list-style-type: none"> <li>• Sometimes students interchange the coordinates and plot the point.</li> <li>• They face problem in plotting image of the point in X or Y axis</li> </ul>	Understanding	<b>Subjective:</b> Students plot points incorrectly. <b>Behavioural:</b> Lack of concentration.

4. Linear equations in two variables	<p>Problem :</p> <ul style="list-style-type: none"> <li>To frame equations according to the given situation.</li> </ul>	Understanding the language of the question	<p><b>Subjective :</b> Not able to frame equations.</p> <p><b>Behavioural:</b> Lack of understanding the language properly.</p>
5. Introduction to Euclid's Geometry	<p>Problem :</p> <ul style="list-style-type: none"> <li>Students get confused between axioms and postulates.</li> </ul>	Logical understanding	<p><b>Subjective:</b> Not able to distinguish between axioms and postulates.</p> <p><b>Behavioural:</b> Lack of understanding</p>
6. Lines and Angles	<p>Problem :</p> <ul style="list-style-type: none"> <li>Students face problem in identifying pairs of angles.</li> </ul>	Lack of observation and reasoning skill	<p><b>Subjective:</b> Not able to identify correct pairs of angles.</p> <p><b>Behavioural:</b> Lack of complete focus and attention on study.</p>
7. Triangles	<p>Problems :</p> <ul style="list-style-type: none"> <li>Students face problem in identifying corresponding parts in two triangles</li> <li>They face problem in applying proper criterion of congruency.</li> </ul>	Understanding	<p><b>Subjective:</b> Confusion in applying proper congruency criterion</p> <p><b>Behavioural:</b> Lack of observation while attending class.</p>